

DIGITAL TELEVISION RECEIVER WITH REMOTE TUNER FOR DRIVING  
TRANSMISSION LINE WITH INTERMEDIATE-FREQUENCY SIGNAL

Abstract of the Disclosure

An outdoor-antenna digital television receiver system has an electrically controlled remote tuner located close to the antenna. In response to a remote control signal, the remote tuner selects a particular radio-frequency digital television signal to be received, converts that RF DTV signal to an intermediate-frequency digital television signal of prescribed carrier frequency, and drives a downlead transmission line, preferably a coaxial cable. Indoors, the downlead transmission line is provided with an echo-free termination. This echo-free termination may be in a "set-top" box that includes a frequency up-converter that converts the IF DTV signal back to an RF DTV signal for reception by a conventional digital television receiver. Alternatively, the echo-free termination may be in a special DTV receiver without a local tuner. In such a special DTV receiver the IF DTV signal developed across the echo-free termination is supplied to circuitry for demodulation and analog-to-digital conversion, which circuitry supplies digitized baseband DTV signal.